

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L9	4818	plug same resilient same rigid	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/09 15:37
L10	1243	plug and resilient with slit	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/09 15:38
L11	586	plug same (resilient or elastomeric) with slit	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/09 15:38
L12	20237	(plug or pig) same (longitudinal\$3 or axial\$3) with (slit or slot)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/09 15:38
L13	227	(wellbore pipeline) and L12	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/09 15:38
L14	109	9 and (L10 L11 L13)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/09 15:39
S1	7	("1683429" "20010047811" "3605159" "5966768").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/09 10:00
S2	386	166/153.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/09 10:07
S6	1	"20060266512".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/09 10:18
S7	2945	166/105,207,153,101,99,127,135,195.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/09 12:36
S8	1243	plug and resilient with slit	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/09 10:19

## EAST Search History

S9	586	plug same (resilient or elastomeric) with slit	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/09 10:49
S10	20237	(plug or pig) same (longitudinal\$3 or axial\$3) with (slit or slot)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/09 10:49
S11	227	(wellbore pipeline) and S10	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/09 15:38
S12	4	("1683429").URPN.	USPAT	OR	ON	2007/07/09 11:22
S13	40	("0049416"   "0343769"   "0738289"   "0979121"   "1060163"   "1623843"   "1683429"   "1741899"   "1747933"   "2285779"   "2450486"   "3115163"   "3120246"   "3619844"   "3665966"   "4040450").PN. OR ("4202377").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/09 11:23
S14	62	("0864544"   "1547440"   "1597850"   "1668438"   "1673890"   "1683429"   "1713895"   "1795348"   "2170997"   "3425083"   "3460180"   "3474479"   "3939519"   "4077079"   "4079782"   "4124065"   "4244072"   "4283807"   "4297147"   "4350202"   "4353414"   "4383346"   "4390058"   "4406031"   "4420038"   "4435872"   "4476917"   "4538316"   "4556102"   "4566533"   "4709719"   "4830099"   "5010950"   "5153963"   "5176199"   "5186815"   "5213623"   "5358573"   "5379475"   "5431545"   "5473787"   "5592990"   "5607513"   "5630471"   "5647428"   "5685041"   "5882428"   "6079074"   "6409843").PN. OR ("6569255").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/09 11:24
S15	4	("1673890").URPN.	USPAT	OR	ON	2007/07/09 11:25
S16	3	("1668438").URPN.	USPAT	OR	ON	2007/07/09 11:26
S17	18	("1597850"   "1668438"   "3616113"   "3651530"   "3819514"   "3888768"   "3946455"   "4556102"   "4569097"   "4733718"   "5473787"   "5630471"   "5983994"   "6014789"   "6272713"   "6530427").PN. OR ("6945316").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/09 11:28
S18	22	("2258174"   "2539354"   "4336074"   "4406030"   "4550466"   "5105498").PN. OR ("6272713").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/09 11:28
S19	7	("864544").URPN.	USPAT	OR	ON	2007/07/09 11:33
S20	13	("1547440").URPN.	USPAT	OR	ON	2007/07/09 11:37

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S21	24	("1415600"   "1547440"   "1713895"   "3403701"   "3543323"   "3602934").PN. OR ("3725968").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/09 11:38
S22	16	("1994072"   "2392144"   "2433828"   "2509922"   "2567475"   "3561534"   "3725968"   "4612986"   "4896720"   "5570742").PN. OR ("6523612").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/09 11:39
S23	59	("1342618"   "1392105"   "1598771"   "1713895"   "1855046"   "2190145"   "2334788"   "2392144"   "2447966"   "2509922"   "2567475"   "2695673"   "2715552"   "3176772"   "3541628"   "3827492"   "4164980"   "4345350"   "4427065"   "4438812"   "4501322"   "4548271"   "4612986"   "4720884"   "4747452"   "4809779"   "4896720").PN. OR ("5570742").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/09 11:39
S24	7	("5002139"   "5419397"   "5570742"   "5819353"   "6279962"   "D436237").PN. OR ("6575239").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/09 11:40
S25	12	("3032114"   "3827492"   "4438812"   "4501322"   "5002139"   "5570742"   "5711046"   "5819353"   "5829521"   "5947203").PN. OR ("D436237").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/09 11:41
S26	12	("4122575").PN. OR ("4720884").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/09 12:08
S27	21	("3204274"   "3389417"   "3474479"   "3605159"   "3879790"   "4122575"   "4406030"   "4406031"   "4720884"   "4825498"   "4907314").PN. OR ("5384929").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/09 12:09
S28	5	("3605159").URPN.	USPAT	OR	ON	2007/07/09 12:13
S29	5	("3389417").URPN.	USPAT	OR	ON	2007/07/09 12:23
S30	9	("3389417"   "3403418").PN. OR ("3602934").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/09 12:24
S31	1	("1415600").URPN.	USPAT	OR	ON	2007/07/09 12:34
S32	7	("864544").URPN.	USPAT	OR	ON	2007/07/09 12:35
S33	1153	S7 and (slot slit groove)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/07/09 12:36